

L Number	Hits	Search Text	DB	Time stamp
1	1126	((568/674) or (568/615) or (568/616) or (568/654) or (568/649)).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/26 16:08
2	265	hypofluorite	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/26 16:08
3	9	((568/674) or (568/615) or (568/616) or (568/654) or (568/649)).CCLS.) and hypofluorite	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/26 16:18
4	31824	tetrafluoroethylene	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/26 16:19
5	390	dichlorodifluoroethylene	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/26 16:19
6	11	hypofluorite same (tetrafluoroethylene or dichlorodifluoroethylene)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/26 16:44
7	0	(perfluorovinyl adj ether) or (fluorovinyl adj ether)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/26 16:46
8	1593	(perfluorovinyl near2 ether) or (fluorovinyl near2 ether)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/26 16:46
9	3	hypofluorite and ((perfluorovinyl near2 ether) or (fluorovinyl near2 ether))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/26 17:09
10	1	perfluoro adj alkyl adj hypofluorite	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/26 17:11
11	16	perfluoro near5 hypofluorite	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/26 17:11

09/840,527

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NEWS 4 Feb 24 TEMA now available on STN
NEWS 5 Feb 26 NTIS now allows simultaneous left and right truncation
NEWS 6 Feb 26 PCTFULL now contains images
NEWS 7 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results
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NEWS 11 Apr 14 MEDLINE Reload
NEWS 12 Apr 17 Polymer searching in REGISTRY enhanced
NEWS 13 AUG 22 Indexing from 1927 to 1936 added to records in CA/CAPLUS
NEWS 14 Apr 21 New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS 15 Apr 28 RDISCLOSURE now available on STN
NEWS 16 May 05 Pharmacokinetic information and systematic chemical names added to PHAR
NEWS 17 May 15 MEDLINE file segment of TOXCENTER reloaded
NEWS 18 May 15 Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS 19 May 19 Simultaneous left and right truncation added to WSCA
NEWS 20 May 19 RAPRA enhanced with new search field, simultaneous left and right truncation
NEWS 21 Jun 06 Simultaneous left and right truncation added to CBNB
NEWS 22 Jun 06 PASCAL enhanced with additional data
NEWS 23 Jun 20 2003 edition of the FSTA Thesaurus is now available
NEWS 24 Jun 25 HSDB has been reloaded
NEWS 25 Jul 16 Data from 1960-1976 added to RDISCLOSURE
NEWS 26 Jul 21 Identification of STN records implemented
NEWS 27 Jul 21 Polymer class term count added to REGISTRY
NEWS 28 Jul 22 INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available
NEWS 29 AUG 05 New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS 30 AUG 13 Field Availability (/FA) field enhanced in BEILSTEIN
NEWS 31 AUG 15 PATDPAFULL: one FREE connect hour, per account, in September 2003
NEWS 32 AUG 15 PCTGEN: one FREE connect hour, per account, in September 2003
NEWS 33 AUG 15 RDISCLOSURE: one FREE connect hour, per account, in September 2003
NEWS 34 AUG 15 TEMA: one FREE connect hour, per account, in September 2003
NEWS 35 AUG 18 Data available for download as a PDF in RDISCLOSURE
NEWS 36 AUG 18 Simultaneous left and right truncation added to PASCAL
NEWS 37 AUG 18 FROSTI and KOSMET enhanced with Simultaneous Left and Right

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FILE 'WPINDEX' ACCESS NOT AUTHORIZED

=> s perfluoro (5a) hypofluorite#
49 FILES SEARCHED...

L1 54 PERFLUORO (5A) HYPOFLUORITE#

=> dup rem l1

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PROCESSING COMPLETED FOR L1

L2 43 DUP REM L1 (11 DUPLICATES REMOVED)

=> d 1-43 ti

L2 ANSWER 1 OF 43 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 1
TI THERMALLY STABLE PERFLUOROPOLYETHERS AND PROCESSES THEREFOR AND THEREWITH

L2 ANSWER 2 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 2
TI Synthesis of low molecular weight perfluoro oxymethylene vinyl ethers

L2 ANSWER 3 OF 43 BABS COPYRIGHT 2003 BEILSTEIN CDS MDLI on STN
TI Synthesis of low molecular weight perfluoro oxymethylene vinyl ethers

L2 ANSWER 4 OF 43 PCTFULL COPYRIGHT 2003 Univentio on STN DUPLICATE
DUPLICATE 3
TIEN PERFLUOROPOLYETHERS AND PROCESSES THEREFOR AND THEREWITH
TIFR PERFLUOROPOLYETHERS ET LEURS PROCEDES DE PREPARATION ET D'UTILISATION

L2 ANSWER 5 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
TI Process for the synthesis of perfluorosulfonylalkyl hypofluorites

L2 ANSWER 6 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
TI Preparation of perfluoroalkyl hypofluorites and their adducts with
(halo)ethylenes

L2 ANSWER 7 OF 43 CASREACT COPYRIGHT 2003 ACS on STN
TI Process for the synthesis of perfluorosulfonylalkyl hypofluorites

L2 ANSWER 8 OF 43 CASREACT COPYRIGHT 2003 ACS on STN
TI Preparation of perfluoroalkyl hypofluorites and their adducts with
(halo)ethylenes

L2 ANSWER 9 OF 43 PCTFULL COPYRIGHT 2003 Univentio on STN
TIEN FLUORINE CONTAINING VINYL ETHERS
TIFR VINYL-ETHERS CONTENANT DU FLUOR

L2 ANSWER 10 OF 43 USPATFULL on STN
TI Fluorine containing vinyl ethers

L2 ANSWER 11 OF 43 EUROPATFULL COPYRIGHT 2003 WILA on STN
TIEN Low dissipation-factor fluorocarbon resins and cables prepared
therefrom.
TIEN Low dissipation-factor fluorocarbon resins and cables prepared

09/840,527

therefrom.

- L2 ANSWER 12 OF 43 EUROPATFULL COPYRIGHT 2003 WILA on STN
TIEN Process for preparing perfluoro-2-methyl-4-methoxypentane.
TIEN Process for preparing perfluoro-2-methyl-4-methoxypentane.
- L2 ANSWER 13 OF 43 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 4
TI METHOD OF SELECTIVE FLUORINATION; IODINATION OF A METHYLENE PHOSPHONATE
OR PHOSPHORANE COMPOUND AT METHYLENE POSITION, REPLACING IODINE BY
FLUORINATION WITH ELECTROPHILIC FLUORINATING COMPOUND
- L2 ANSWER 14 OF 43 EUROPATFULL COPYRIGHT 2003 WILA on STN
TIEN Perfluoropolyethers having mono and bishypofluorite end groups and
process for preparing them.
TIEN Perfluoropolyethers having mono and bishypofluorite end groups and
process for preparing them.
- L2 ANSWER 15 OF 43 ENCOMPAT2 COPYRIGHT 2003 ELSEVIER ENGINEERING
INFORMATION INC. on STN
TI High purity perfluoro-2-methyl-4-methoxy-pentane prepn. process - by
reacting perfluoro-4-methyl-2-pentene with **perfluoro**-methyl
hypofluorite partic. useful as cooling and heat transfer fluid
- L2 ANSWER 16 OF 43 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN
TI Mono- or di-functional per fluoro polyether(s) with hypofluorite gps. -
prep'd. by reacting per fluoro polyether having at least one fluoro formate
end gp. or peroxy gp. with fluorine, etc..
- L2 ANSWER 17 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
TI Process for manufacture of hypofluorites and bishypofluorites
- L2 ANSWER 18 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
TI Kinetics and mechanism of the thermal reaction between **perfluoro**
-2-butene and trifluoromethyl **hypofluorite**
- L2 ANSWER 19 OF 43 USPATFULL on STN
TI Fluoroxy compound solutions
- L2 ANSWER 20 OF 43 PASCAL COPYRIGHT 2003 INIST-CNRS. ALL RIGHTS RESERVED.
on STN
TIEN Facile, temperature-dependent formation of gaseous C._{sub.1} and C._{sub.2}
perfluoroalkyl hypofluorites. Applications as electrophilic fluorinating
agents
- L2 ANSWER 21 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 5
TI Stable long-chain fluoroxy compounds and their chemistry
- L2 ANSWER 22 OF 43 USPATFULL on STN
TI Chemical process for fluorinating a tertiary carbon atom in the steroid
nucleus
- L2 ANSWER 23 OF 43 USPATFULL on STN
TI Preparation of N,N-difluoroamines
- L2 ANSWER 24 OF 43 USPATFULL on STN
TI Uracil derivatives and production thereof
- L2 ANSWER 25 OF 43 USPATFULL on STN
TI Perfluoroethers
- L2 ANSWER 26 OF 43 NTIS COPYRIGHT 2003 NTIS on STN
TI Method for the Preparation of Bis(Perfluoro-t Butyl) Peroxide. Patent.

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- L2 ANSWER 27 OF 43 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 6
TI METHOD FOR THE PREPARATION OF BIS(PERFLUORO-T BUTYL) PEROXIDE; PHOTOLYSIS
OF PERFLUORO-T-BUTYL HYPOFLUORITE;
TETRAFLUOROHYDRAZINE
- L2 ANSWER 28 OF 43 USPATFULL on STN
TI Method for the preparation of perfluoroethers
- L2 ANSWER 29 OF 43 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 7
TI CHEMICAL PROCESS FOR PREPARING DELTA9(11)-DEHYDROSTEROIDS; ELECTROPHILIC
FLUORINATION, FREE RADICAL INHIBITOR, DEHYDROFLUORINATION
- L2 ANSWER 30 OF 43 USPATFULL on STN
TI Chemical process
- L2 ANSWER 31 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 8
TI Addition reaction of tetrafluorohydrazine to **perfluoro-t-butyl**
hypofluorite
- L2 ANSWER 32 OF 43 USPATFULL on STN
TI Process for the preparation of N-monofluoro-acid amides, N-monofluoro
and N,N-difluoro-tertiary amines
- L2 ANSWER 33 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
TI Photochemical reactions of fluoroxypfluoroalkanes with
perfluorocycloolefins
- L2 ANSWER 34 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
TI Electrophilic additions involving fluoronium ions. II. Addition of
fluoroxy groups to perfluoroaromatic compounds
- L2 ANSWER 35 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
TI Electrophilic additions involving fluoronium ions. I. Fluoroxy additions
to perfluoro-olefinic bonds
- L2 ANSWER 36 OF 43 SCISEARCH COPYRIGHT 2003 THOMSON ISI on STN
TI THERMAL VERSUS PHOTOINDUCED REACTIONS OF **PERFLUORO-TERT-BUTYL**
HYPOFLUORITE AND TETRA-FLUOROHYDRAZINE
- L2 ANSWER 37 OF 43 NTIS COPYRIGHT 2003 NTIS on STN
TI Electrophilic Additions Involving Fluoronium Ions. II. The Addition of
Fluoroxy Groups to Perfluoroaromatic Compounds.
Reprint: Electrophilic Additions Involving Fluoronium Ions. II. The
Addition of Fluoroxy Groups to Perfluoroaromatic Compounds.
- L2 ANSWER 38 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 9
TI Polymerizing **perfluoro-2-butyne** using trifluoromethyl
hypofluorite as initiator
- L2 ANSWER 39 OF 43 USPATFULL on STN
TI FLUORINATION OF UNSATURATED STEROIDS
- L2 ANSWER 40 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
TI Electrophilic fluorination of unsaturated organic compounds
- L2 ANSWER 41 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
TI Perfluoroalkylperoxy perfluoroalkylfluoroxy compounds
- L2 ANSWER 42 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
TI Perfluoroalkyl hypochlorites and SbF₅OCl
- L2 ANSWER 43 OF 43 NTIS COPYRIGHT 2003 NTIS on STN
TI Method for the Preparation of Bis (Perfluoro-T-Butyl) Peroxide. Patent

09/840,527

Application.

=> d 6,8,17 bib ab

L2 ANSWER 6 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:669780 CAPLUS
DN 137:169235
TI Preparation of perfluoroalkyl hypofluorites and their adducts with (halo)ethylenes
IN Navarrini, Walter; Galiberti, Marco
PA Ausimont S.p.A., Italy
SO Ital. Appl., 25 pp.
CODEN: ITXXCZ
DT Patent
LA Italian
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|----------|
| PI IT 2000MI1845 | A1 | 20020208 | IT 2000-MI1845 | 20000808 |
| PRAI IT 2000-MI1845 | | 20000808 | | |
| OS CASREACT 137:169235; MARPAT 137:169235 | | | | |
| AB Hypofluorites R ₁ R ₂ R ₃ CCF ₂ OF (R ₁ , R ₂ , R ₃ = F, perfluoroalkyl or may combine to form a 4-6 membered ring) were prepd. and reacted with olefins X ₁ X ₂ C:CX ₃ X ₄ (X ₁ -X ₄ = H, F, Cl) to form adducts R ₁ R ₂ R ₃ CCF ₂ OClX ₁ X ₂ CX ₃ X ₄ F. Thus, fluorination of (CF ₃) ₂ CF ₂ OF (2 mol) with 4 mol F ₂ over a CsF/NaF catalyst (3 h at -78.degree.) yielded (CF ₃) ₂ CF ₂ OF which reacted with 6 mol CFCl:CFCl to afford 60% (CF ₃) ₂ CF ₂ OCl to afford 60% (CF ₃) ₂ CF ₂ OCFClCF ₂ OCl. | | | | |

L2 ANSWER 8 OF 43 CASREACT COPYRIGHT 2003 ACS on STN
AN 137:169235 CASREACT
TI Preparation of perfluoroalkyl hypofluorites and their adducts with (halo)ethylenes
IN Navarrini, Walter; Galiberti, Marco
PA Ausimont S.p.A., Italy
SO Ital. Appl., 25 pp.
CODEN: ITXXCZ
DT Patent
LA Italian
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|----------|
| PI IT 2000MI1845 | A1 | 20020208 | IT 2000-MI1845 | 20000808 |
| PRAI IT 2000-MI1845 | | 20000808 | | |
| OS MARPAT 137:169235 | | | | |
| AB Hypofluorites R ₁ R ₂ R ₃ CCF ₂ OF (R ₁ , R ₂ , R ₃ = F, perfluoroalkyl or may combine to form a 4-6 membered ring) were prepd. and reacted with olefins X ₁ X ₂ C:CX ₃ X ₄ (X ₁ -X ₄ = H, F, Cl) to form adducts R ₁ R ₂ R ₃ CCF ₂ OClX ₁ X ₂ CX ₃ X ₄ F. Thus, fluorination of (CF ₃) ₂ CF ₂ OF (2 mol) with 4 mol F ₂ over a CsF/NaF catalyst (3 h at -78.degree.) yielded (CF ₃) ₂ CF ₂ OF which reacted with 6 mol CFCl:CFCl to afford 60% (CF ₃) ₂ CF ₂ OCFClCF ₂ OCl. | | | | |

L2 ANSWER 17 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1988:475711 CAPLUS
DN 109:75711
TI Process for manufacture of hypofluorites and bishypofluorites
IN Marraccini, Antonio; Guglielmo, Giorgio; Malacrida, Alessandro; Roberti, Lamberto
PA Ausimont S.p.A., Italy
SO Eur. Pat. Appl., 6 pp.
CODEN: EPXXDW
DT Patent

09/840,527

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-----------------------|------|----------|-----------------|----------|
| PI | EP 259817 | A2 | 19880316 | EP 1987-113058 | 19870907 |
| | EP 259817 | A3 | 19880504 | | |
| | EP 259817 | B1 | 19910522 | | |
| | R: DE, FR, GB, NL, SE | | | | |
| | US 4801409 | A | 19890131 | US 1987-93700 | 19870908 |
| | JP 63126845 | A2 | 19880530 | JP 1987-224216 | 19870909 |
| | JP 2532885 | B2 | 19960911 | | |
| | CA 1297122 | A1 | 19920310 | CA 1987-546432 | 19870909 |
| PRAI | IT 1986-21658 | | 19860910 | | |

OS MARPAT 109:75711

AB A process for prepg. FSO₂RCF₂OF (R = C₁₋₄ perfluoroalkylene, C₁₋₄ perfluorochloroalkylene) or FO₂R₁CF₂OF (R₁ = C₁₋₁₀ perfluoroalkylene, C₁₋₁₀ perfluoroxyalkylene), comprises reacting FO₂SRCOF or FCOR₁COF with F in the gas phase at 0-60.degree. in the presence of a KF, RbF, CsF, or BaF fixed-bed catalyst, the process being conducted continuously. Thus, Cu chips were mixed with CsF, dried at 350.degree. in N over 4 h, ground, screened, and the gaseous mixt. consisting of 1:1:1 (molar ratio) N/F/FO₂SCF₂COF was passed over the catalyst at 12 NL/h and 20.degree. and 1.1 atm, producing FO₂SCF₂CF₂OF in 100% yield.

=> log y

COST IN U.S. DOLLARS

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |

FULL ESTIMATED COST

100.40 100.61

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

| SINCE FILE | TOTAL |
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NEWS 20 May 19 RAPRA enhanced with new search field, simultaneous left and
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NEWS 21 Jun 06 Simultaneous left and right truncation added to CBNB
NEWS 22 Jun 06 PASCAL enhanced with additional data
NEWS 23 Jun 20 2003 edition of the FSTA Thesaurus is now available
NEWS 24 Jun 25 HSDB has been reloaded
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NEWS 26 Jul 21 Identification of STN records implemented
NEWS 27 Jul 21 Polymer class term count added to REGISTRY
NEWS 28 Jul 22 INPADOC: Basic index (/BI) enhanced; Simultaneous Left and
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NEWS 29 AUG 05 New pricing for EUROPATFULL and PCTFULL effective
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NEWS 34 AUG 15 TEMA: one FREE connect hour, per account, in
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NEWS 35 AUG 18 Data available for download as a PDF in RDISCLOSURE
NEWS 36 AUG 18 Simultaneous left and right truncation added to PASCAL
NEWS 37 AUG 18 FROSTI and KOSMET enhanced with Simultaneous Left and Right

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Truncation

NEWS 38 AUG 18 Simultaneous left and right truncation added to ANABSTR

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=> s tetrafluoroethylene and hypofluorite

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L1 69 TETRAFLUOROETHYLENE AND HYPOFLUORITE

=> dup rem 11

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L2 49 DUP REM L1 (20 DUPLICATES REMOVED)

=> d 1-49 ti.

L2 ANSWER 1 OF 49 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 1

TI THERMALLY STABLE PERFLUOROPOLYETHERS AND PROCESSES THEREFOR AND THEREWITH

L2 ANSWER 2 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN

TIEN Alkyl esters of 2-(2-fluorosulphonyl)-perfluoroethylenoxy-3-halogen-propionic acid.

L2 ANSWER 3 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN

TIEN Perfluoroelastomers.

L2 ANSWER 4 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN

TIEN Fluoroelastomers.

L2 ANSWER 5 OF 49 USPATFULL on STN

TI Alkyl esters of the 2-(2-fluorosulphonyl)-perfluoroethylenoxy-3-halogen-propionic acid

L2 ANSWER 6 OF 49 USPATFULL on STN

TI Perfluoroelastomers

L2 ANSWER 7 OF 49 USPATFULL on STN

TI Fluoroelastomers

L2 ANSWER 8 OF 49 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 2

TI Methyl **hypofluorite** (MeOF) reactions with various fluoroolefins

L2 ANSWER 9 OF 49 USPATFULL on STN

DUPLICATE 3

TI Perfluorodioxoles

L2 ANSWER 10 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN

TIEN New perfluorodioxoles.

TIEN New perfluorodioxoles.

L2 ANSWER 11 OF 49 IFIPAT COPYRIGHT 2003 IFI on STN

TI NEW PERFLUORODIOXOLES

L2 ANSWER 12 OF 49 INPADOC COPYRIGHT 2003 EPO on STN

TI METHOD OF OXIDATION OF **TETRAFLUOROETHYLENE** TO PEROXIDE SIMPLE
PERFLUOROPOLYETHER PRODUCING

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- L2 ANSWER 13 OF 49 PCTFULL COPYRIGHT 2003 Univentio on STN
TIEN USE OF PARTIALLY FLUORINATED POLYMERS IN APPLICATIONS REQUIRING
TRANSPARENCY IN THE ULTRAVIOLET AND VACUUM ULTRAVIOLET
TIFR UTILISATION DE POLYMERES PARTIELLEMENT FLUORES DANS DES APPLICATIONS
NECESSITANT LA TRANSPARENCE DANS L'ULTRAVIOLET ET L'ULTRAVIOLET EXTREME
- L2 ANSWER 14 OF 49 PCTFULL COPYRIGHT 2003 Univentio on STN
TIEN PERFLUOROPOLYETHERS AND PROCESSES THEREFOR AND THEREWITH
TIFR PERFLUOROPOLYETHERS ET LEURS PROCEDES DE PREPARATION ET D'UTILISATION
- L2 ANSWER 15 OF 49 USPATFULL on STN
TI Copolymers of perfluorodioxoles
- L2 ANSWER 16 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN DUPLICATE 4
TIEN Fluorovinylethers and polymers obtainable therefrom.
- L2 ANSWER 17 OF 49 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 5
TI FLUOROVINYL ETHERS AND POLYMERS OBTAINABLE THEREFROM; SUCH AS
PERFLUOROVINYL PERFLUORO(ETHOXYMETHYL) ETHER; THE (-OCF₂O-) UNIT BOUND TO
THE ETHYLENE UNSATURATION INCREASES THE VINYL ETHER REACTIVITY
DRASTICALLY REDUCING THE REARRANGEMENTS TO CARBONYL FLUORIDE WHICH CAUSE
INSTABILITY
- L2 ANSWER 18 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN
TIEN Fluoroelastomers.
- L2 ANSWER 19 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN
TIEN Process for the neutralization of perfluoropolyoxyalkylenes.
TIEN Process for the neutralization of perfluoropolyoxyalkylenes.
- L2 ANSWER 20 OF 49 USPATFULL on STN
TI Fluoroelastomers
- L2 ANSWER 21 OF 49 WSCA COPYRIGHT 2003 PAINT RESEARCH on STN
TI Surface properties of methacrylic copolymers containing
perfluoropolyether structure.
- L2 ANSWER 22 OF 49 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 6
TI Method for preparing perfluorinated epoxides by the epoxidation of
perfluorinated alkenes in the presence of oxygen and a halogen initiator
- L2 ANSWER 23 OF 49 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 7
TI Preparation of fluoroethers from fluoroolefins
- L2 ANSWER 24 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN
TIEN Process for preparing perfluoropolyethers.
TIEN Process for preparing perfluoropolyethers.
- L2 ANSWER 25 OF 49 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN
TI New perfluorodioxole compounds, suitable for preparing copolymers with
tetrafluoroethylene and other olefins.
- L2 ANSWER 26 OF 49 USPATFULL on STN
TI Fluorinated polymers and copolymers containing cyclic structures
- L2 ANSWER 27 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN
TIEN Fluorinated polymers and copolymers containing cyclic structures.
TIEN Fluorinated polymers and copolymers containing cyclic structures.
- L2 ANSWER 28 OF 49 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 8
TI FLUORINATED POLYMERS AND COPOLYMERS CONTAINING CYCLIC STRUCTURES; HEAT
STABILITY

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- L2 ANSWER 29 OF 49 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 9
TI PROCESS FOR PREPARING PERFLUOROPOLYETHERS; OXIDATION AND PEROXIDATION OF
TETRAFLUOROETHYLENE; ADDITION-CONDENSATION POLYMERIZATION
- L2 ANSWER 30 OF 49 USPATFULL on STN
TI N-fluoropyridinium salt and process for preparing same
- L2 ANSWER 31 OF 49 ENCOMPPAT2 COPYRIGHT 2003 ELSEVIER ENGINEERING
INFORMATION INC. on STN DUPLICATE 10
TI Higher mol. wt. perfluoro-polyether cpds. - prep'd. by liq. phase oxidation
of tetrafluoro-ethylene with oxygen in a liq. phase using a chemical
initiator and a specified reaction pressure
- L2 ANSWER 32 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN
TIEN Process for the preparation of peroxidic perfluoropolylethers.
TIEN Process for the preparation of peroxidic perfluoropolylethers.
- L2 ANSWER 33 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN
TIEN Polymerization of fluoroolefins.
TIEN Polymerization of fluoroolefins.
- L2 ANSWER 34 OF 49 USPATFULL on STN
TI Process for the neutralization of perfluoropolyoxyalkylenes
- L2 ANSWER 35 OF 49 USPATFULL on STN
TI Process for preparing peroxide perfluoropolylethers
- L2 ANSWER 36 OF 49 USPATFULL on STN
TI Polymerization of fluoroolefins in presence of non-volatile polymeric
seed.
- L2 ANSWER 37 OF 49 USPATFULL on STN
TI N-fluoropyridinium salt and process for preparing same
- L2 ANSWER 38 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN
TIEN Process for preparing perfluoro-(2-bromoethylvinylether).
- L2 ANSWER 39 OF 49 PCTFULL COPYRIGHT 2003 Univentio on STN
TIEN PROCESS FOR THE PREPARATION OF PEROXIDIC PERFLUOROPOLYETHERS
TIFR PROCEDE POUR PREPARER DES PERFLUOROPOLYETHERS PEROXYDIQUES
- L2 ANSWER 40 OF 49 USPATFULL on STN
TI Process for preparing perfluoro-(2-bromoethyl-vinyl-ether)
- L2 ANSWER 41 OF 49 CAPLUS COPYRIGHT 2003 ACS on STN
TI Perfluoropolylethers having mono and bishypofluorite end groups and process
for preparing them
- L2 ANSWER 42 OF 49 USPATFULL on STN
TI Polymerization of fluoroolefins
- L2 ANSWER 43 OF 49 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 11
TI FLUOROOLEFIN POLYMERIZATION PROCESS USING FLUOROXIDE COMPOUND SOLUTION AS
INITIATOR; ACYL HYPOFLUORITE
- L2 ANSWER 44 OF 49 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 12
TI Fluoroolefin polymerization using an acyl hypofluorite catalyst
- L2 ANSWER 45 OF 49 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 13
TI PENTAFLUOROTELLURIUMOXIDE FLUOROCARBONS; HIGH DENSITY FLUIDS
- L2 ANSWER 46 OF 49 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 14
TI Stable long-chain fluoroxo compounds and their chemistry

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L2 ANSWER 47 OF 49 USPATFULL on STN
TI Utilization of oxygen difluoride for syntheses of fluoropolymers

L2 ANSWER 48 OF 49 USPATFULL on STN
TI PROCESS FOR PREPARING PERFLUORO-2-BUTYNE POLYMER

L2 ANSWER 49 OF 49 CAPLUS COPYRIGHT 2003 ACS on STN
TI 1,3-Bis(fluoroxy)perfluoropropane and other oxygen-containing compounds by direct fluorination

=> d 1,8,14,16,17,23,24,29,31,33,42 bib ab

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TI THERMALLY STABLE PERFLUOROPOLYETHERS AND PROCESSES THEREFOR AND THEREWITH
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Howell; Jon L., Bear, DE, US
Perez; Erik William, Pennsauken, NJ, US
Thrasher; Joseph Stuart, Tuscaloosa, AL, US
Waterfeld; Alfred, Tuscaloosa, AL, US
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AI US 2001-901975 20010710
FI US 2003027732 20030206
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
CLMN 35
AB A perfluoropolyether, a composition comprising the perfluoropolyether, a process for producing the perfluoropolyether, and a process for improving the thermostability of grease or lubricant are provided. The perfluoropolyether comprises perfluoroalkyl radical end groups in which the radical has at least 3 carbon atoms per radical and is substantially free of perfluoromethyl and perfluoroethyl end groups. The process for producing the perfluoropolyether can comprise (1) contacting a perfluoro acid halide, a C₂- to C₄-substituted ethyl epoxide, or a C₃₊ fluoroketone with a metal halide to produce an alkoxide; (2) contacting the alkoxide with either hexafluoropropylene oxide or tetrafluorooxetane to produce a second acid halide; (3) esterifying the second acid halide to an ester; (4) reducing the ester to its corresponding alcohol; (5) converting the alcohol with a base to a salt form; (6) contacting the salt form with a C₃ or higher olefin to produce a fluoropolyether; and (7) fluorinating the fluoropolyether. The process for improving the thermostability of a grease or lubricant comprises combining the grease or lubricant with the composition.

L2 ANSWER 8 OF 49 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 2
AN 2002:943764 CAPLUS
DN 138:337677
TI Methyl hypofluorite (MeOF) reactions with various fluoroolefins
AU Suzuta, Tetsuya; Abe, Takashi; Sekiya, Akira
CS Toagosei Co. Ltd., Tsukuba, Ibaraki, 300-2611, Japan
SO Journal of Fluorine Chemistry (2003), 119(1), 3-8
CODEN: JFLCAR; ISSN: 0022-1139
PB Elsevier Science B.V.
DT Journal

09/840,527

LA English

OS CASREACT 138:337677

AB The reaction of MeOF with fluoroolefins such as CF₂:CF₂, CF₂:CFCF₃, CF₂:CFOCF₃, CF₂:CFOMe, CF₂:CClF, CF₂:CHF, CF₂:CH₂, CHF:CH₂, and CF₂:CFCF:CF₂ occurred in CD₃CN or in the presence of NaF. Using neat MeOF in the presence of NaF was a novel method and gave good results. When >3 F atoms were bonded to the C-C double bond, the addn. products were obtained mostly in good yields.

RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
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PEREZ, Erik, William;
WATERFELD, Alfred;
FRIESEN, Chadron, Mark;
THRASHER, Joseph, Stuart

PA E.I. DUPONT DE NEMOURS AND COMPANY;
HOWELL, Jon, L.;
PEREZ, Erik, William;
WATERFELD, Alfred;
FRIESEN, Chadron, Mark;
THRASHER, Joseph, Stuart

DT Patent

PI WO 2002006375 A2 20020124

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KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ
NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US
UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM AZ BY
KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU
MC NL PT SE TR BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD
TG

AI WO 2001-US22817 A 20010719

PRAI US 2000-60/219,400 20000719

ABEN A perfluoropolyether, a composition comprising the perfluoropolyether, a process for producing the perfluoropolyether, and a process for improving the thermostability of grease or lubricant are provided. The perfluoropolyether comprises (1) perfluoroalkyl radical end groups in which the radical has at least 3 carbon atoms per radical and is substantially free of perfluoromethyl and perfluoroethyl end groups or (2) at least one bromine or iodine atom at the primary position of the perfluoropolyether.

ABFR L'invention concerne un perfluoropolyether, une composition renfermant ledit perfluoropolyether, un procede de production dudit perfluoropolyether et un procede destine a ameliorer la thermostabilite des graisses ou lubrifiants. Le perfluoropolyether selon l'invention comprend (1) des groupes terminaux radicalaires perfluoroalkyle dont le radical, qui est sensiblement exempt de groupes terminaux perfluoromethyle et perfluoroethyle, se compose d'au moins 3 atomes de carbone par radical ou (2) au moins un atome de brome ou d'iode au niveau de sa position primaire.

L2 ANSWER 16 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN DUPLICATE 4

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 1148041 EUROPATFULL UP 20020218 EW 200143 FS OS STA R

TIEN Fluorovinylethers and polymers obtainable therefrom.

TIDE Fluorovinylether und daraus hergestellte Polymere.

09/840,527

TIFR Ethers fluorovinyliques et des polymeres ainsi obtenus.
IN Navarrini, Walter, Via Aldo Moro 46/48, Boffalora Ticino, Milano, IT
PA Ausimont S.p.A., Piazzetta Maurilio Bossi 3, 20121 Milano, IT
PAN 1060675
AG Sama, Daniele, Dr. et al., Sama Patents, Via G.B. Morgagni, 2, 20129
Milano, IT
AGN 76062
OS BEPA2001086 EP 1148041 A2 0019
SO Wila-EPZ-2001-H43-T1a
DT Patent
LA Anmeldung in Englisch; Veroeffentlichung in Englisch
DS R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE;
R IT; R LI; R LU; R MC; R NL; R PT; R SE; R TR; R AL; R LT; R LV; R MK;
R RO; R SI
PIT EPA2 EUROPAEISCHE PATENTANMELDUNG
PI EP 1148041 A2 20011024
OD 20011024
AI EP 2001-108596 20010405
PRAI IT 2000-MI00902 20000421
ABEN Fluorovinylethers having the formula CFX=CXOCF₂.OR, wherein R is a
C₂-C₆ linear, branched or C₅-C₆ cyclic
(per)fluoroalkyl group, or a C₂-C₆ linear, branched
(per)fluoro oxyalkyl group containing from one to three oxygen atoms;
when R is fluoroalkyl or fluoroxyalkyl group as above defined, it can
contain from 1 to 2 atoms, equal or different, selected from the
following: H, Cl, Br, I; X = F, H; and homopolymers or polymers
obtainable polymerizing said fluorovinylethers with at least another
polymerizable monomer.

L2 ANSWER 17 OF 49 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 5
AN 10051594 IFIPAT;IFIUDB;IFICDB
TI FLUOROVINYL ETHERS AND POLYMERS OBTAINABLE THEREFROM; SUCH AS
PERFLUOROVINYL PERFLUORO(ETHOXYMETHYL) ETHER; THE (-OCF₂O-) UNIT BOUND TO
THE ETHYLENE UNSATURATION INCREASES THE VINYL ETHER REACTIVITY
DRASTICALLY REDUCING THE REARRANGEMENTS TO CARBONYL FLUORIDE WHICH CAUSE
INSTABILITY
INF Navarrini; Walter, Milano, IT
IN Navarrini Walter (IT)
PAF Ausimont S.p.A.
PA Ausimont SpA IT (15271)
AG KENYON & KENYON, ONE BROADWAY, NEW YORK, NY, 10004, US
PI US 2001051753 A1 20011213
AI US 2001-840527 20010423
PRAI IT 2000-MI902 20000421
FI US 2001051753 20011213
DT Utility; Patent Application - First Publication
FS CHEMICAL
 APPLICATION
CLMN 26
AB Fluorovinyl ethers having the formula CFX horizontal-line CXOCF₂OR,
wherein R is a C₂-C₆ linear, branched or C₅-C₆ cyclic (per)fluoroalkyl
group, or a C₂-C₆, linear, branched (per) fluoro oxyalkyl group
containing from one to three oxygen atoms; when R is fluoroalkyl or
fluoroxyalkyl group as above defined, it can contain from 1 to 2 atoms,
equal or different, selected from the following: H, Cl, Br, I; X
horizontal-line F, H; and homopolymers or polymers obtainable
polymerizing said Fluorovinyl ethers with at least another polymerizable
monomer.

L2 ANSWER 23 OF 49 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 7
AN 2000:151462 CAPLUS
DN 132:194111

09/840,527

TI Preparation of fluoroethers from fluoroolefins
IN Suzuta, Tetsuya; Wakabayashi, Kunitoshi; Kurokawa, Yuji; Abe, Takashi;
Sekiya, Akira
PA Agency of Industrial Sciences and Technology, Japan; Zaidan Hojin Chikyu
Kankyo Sangyo Gijutsu Kenkyu Kiko
SO Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---------------|------|----------|-----------------|----------|
| PI | JP 2000072702 | A2 | 20000307 | JP 1998-243921 | 19980828 |
| | JP 2955599 | B2 | 19991004 | | |

PRAI JP 1998-243921 19980828

OS CASREACT 132:194111

AB Fluoroethers, useful as substitutes for chlorofluorocarbons (no data) and
intermediates for drugs and pesticides, are prep'd. by addn. of olefins
having .gtoreq.1 F attached to double bonded C, with MeOF or BuOF.
F2C:CF2 was treated with MeOF in CD3CN at room temp. for 15 h to give 96%
CF3CF2OMe.

L2 ANSWER 24 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 654493 EUROPATFULL ED 19991212 EW 199521 FS OS STA B
TIEN Process for preparing perfluoropolyethers.
TIDE Verfahren zur Herstellung von Perfluorpolyether.
TIFR Procede pour la preparation de perfluoropolyethers.
IN Marchionni, Giuseppe, Via Vallisneri 8, Milano, IT;
Guarda, Pier Antonio, Strada Favero 45, Nole, (Torino), IT;
Paganin, Maurizio, Via Sirio 3/N, Cassina de' Pecchi, (Milano), IT
PA AUSIMONT S.p.A., 31 Foro Buonaparte, I-20121 Milano, IT
PAN 1060674
AG Sama, Daniele et al, Sama Patents Via Masera, 10, I-20129 Milano, IT
AGN 76061
OS ESP1995035 EP 0654493 A1 950524
SO Wila-EPZ-1995-H21-T1a
DT Patent
LA Anmeldung in Englisch; Veroeffentlichung in Englisch
DS R AT; R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R IE; R IT; R LI;
R LU; R NL; R PT; R SE
PIT EPA1 EUROPÄISCHE PATENTANMELDUNG
PI EP 654493 A1 19950524
OD 19950524
AI EP 1994-117844 19941111
PRAI IT 1993-MI932443 19931117

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

AN 654493 EUROPATFULL UP 20000507 EW 200017 FS PS
TIEN Process for preparing perfluoropolyethers.
TIDE Verfahren zur Herstellung von Perfluorpolyethers.
TIFR Procede pour la preparation de perfluoropolyethers.
IN Marchionni, Giuseppe, Via Vallisneri 8, Milano, IT;
Guarda, Pier Antonio, Strada Favero 45, Nole, (Torino), IT;
Paganin, Maurizio, Via Sirio 3/N, Cassina de' Pecchi, (Milano), IT
PA AUSIMONT S.p.A., 31 Foro Buonaparte, I-20121 Milano, IT
PAN 1060674
AG Sama, Daniele, Dr. et al., Sama Patents Via Morgagni, 2, 20129 Milano,
IT
AGN 76061

09/840,527

OS BEPB2000022 EP 0654493 B1 0011
SO Wila-EPS-2000-H17-T1
DT Patent
LA Anmeldung in Englisch; Veroeffentlichung in Englisch
DS R AT; R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R IE; R IT; R LI;
R LU; R NL; R PT; R SE; R SI
PIT EPB1 EUROPÄISCHE PATENTSCHRIFT
PI EP 654493 B1 20000426
OD 19950524
AI EP 1994-117844 19941111
PRAI IT 1993-MI932443 19931117
REP EP 193122 A EP 340740 A
EP 393700 A EP 393705 A
EP 510685 A
REN CHEMICAL ABSTRACTS, vol. 116, no. 20, 18 May 1992, Columbus, Ohio, US;
abstract no. 194935r, BARANOVA N.M. ET AL 'Effect of the change in
copolymer composition upon variation of the initiation rate' page 3; &
DOKL. AKAD. NAUK. SSSR, vol. 322, no. 3, 1992 pages 544 - 548 BARANOVA N
N. M. ET AL
ABEN Process for preparing peroxidic perfluoropolyethers by oxidation of
tetrafluoroethylene with oxygen, in liquid phase comprising a
solvent and in the presence of a chemical initiator, at a pressure
between 2 and 15 absolute atm and operating with a molar ratio of the
tetrafluoroethylene to the chemical initiator higher than 35.
The process allows to increase the molecular weight of the
perfluoropolyethers at the same content of peroxidic oxygen.

L2 ANSWER 29 OF 49 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 9
AN 2686338 IFIPAT;IFIUDB;IFICDB
TI PROCESS FOR PREPARING PERFLUOROPOLYETHERS; OXIDATION AND PEROXIDATION OF
TETRAFLUOROETHYLENE; ADDITION-CONDENSATION POLYMERIZATION
INF Guarda, Pier A, Nole, IT
Marchionni, Giuseppe, Milan, IT
Paganin, Maurizio, Cassina de'Pecchi, IT
IN Guarda Pier A (IT); Marchionni Giuseppe (IT); Paganin Maurizio (IT)
PAF Ausimont SpA, Milan, IT
PA Ausimont SpA IT (15271)
EXNAM Lone, Werren B
AG Finnegan, Henderson, Farabow, Garrett & Dunner
PI US 5488181 19960130 (CITED IN 003 LATER PATENTS)
AI US 1994-341150 19941116
XPD 16 Nov 2014
PRAI IT 1993-MI2443 19931117
FI US 5488181 19960130
DT UTILITY
FS CHEMICAL
GRANTED
MRN 007211 MFN: 0600
CLMN 12
AB Process for preparing peroxidic perfluoropolyethers by oxidation of
tetrafluoroethylene with oxygen, in liquid phase comprising a
solvent and in the presence of a chemical initiator, at a pressure
between 2 and 15 absolute atm and operating with a molar ratio of the
tetrafluoroethylene to the chemical initiator higher than 35. The
process allows to increase the molecular weight of the
perfluoropolyethers at the same content of peroxidic oxygen.

L2 ANSWER 31 OF 49 ENCOMPPAT2 COPYRIGHT 2003 ELSEVIER ENGINEERING
INFORMATION INC. on STN DUPLICATE 10
AN 95:5810 ENCOMPPAT;ENCOMPPAT2
DN 9522931
TI Higher mol. wt. perfluoro-polyether cpds. - prep'd. by liq. phase oxidation

09/840,527

of tetrafluoro-ethylene with oxygen in a liq. phase using a chemical initiator and a specified reaction pressure

IN GUARDA P A; MARCHIONNI G; PAGANIN M
PA AUSIMONT SPA
PI EP 654493 950524
DS AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; NL; PT; SE
AI EP 1994-117844 941111
PRAI IT 1993-MI2443 931117
OS DERWENT 95187208
LA English

L2 ANSWER 33 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 415337 EUROPATFULL ED 20000820 EW 199110 FS OS STA B
TIEN Polymerization of fluoroolefins.
TIDE Polymerisation von Fluorolefinen.
TIFR Polymerisation de fluoro-olefines.
IN Slocum, Edgar Winfred, 302 Hampton Road, Wilmington, Delaware 19803, US;
Sobrero, Aquiles Carlos, 22 Northwood Villa, Parkersburg, West Virginia
26101, US;
Wheland, Robert Clayton, 510 Twaddell Mill Road, Wilmington, Delaware
19807, US
PA E.I. DU PONT DE NEMOURS AND COMPANY, 1007 Market Street, Wilmington
Delaware 19898, US
PAN 200580
AG Abitz, Walter, Dr.-Ing. et al, Abitz, Morf, Gritschneider, Freiherr von
Wittgenstein Postfach 86 01 09, W-8000 Muenchen 86, DE
AGN 1202
OS ESP1991016 EP 0415337 A2 910306
SO Wila-EPZ-1991-H10-T1
DT Patent
LA Anmeldung in Englisch; Veroeffentlichung in Englisch
DS R DE; R GB; R IT
PIT EPA2 EUROPÄISCHE PATENTANMELDUNG
PI EP 415337 A2 19910306
OD 19910306
AI EP 1990-116459 19900828
PRAI US 1989-399656 19890828

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

AN 415337 EUROPATFULL UP 20010830 EW 199452 FS PS STA B
TIEN Polymerization of fluoroolefins.
TIDE Polymerisation von Fluorolefinen.
TIFR Polymerisation de fluoro-olefines.
IN Slocum, Edgar Winfred, 302 Hampton Road, Wilmington, Delaware 19803, US;
Sobrero, Aquiles Carlos, 22 Northwood Villa, Parkersburg, West Virginia
26101, US;
Wheland, Robert Clayton, 510 Twaddell Mill Road, Wilmington, Delaware
19807, US
PA E.I. DU PONT DE NEMOURS AND COMPANY, 1007 Market Street, Wilmington
Delaware 19898, US
PAN 200580
AG Abitz, Walter, Dr.-Ing. et al, Patentanwaelte Abitz & Partner Postfach
86 01 09, D-81628 Muenchen, DE
AGN 1202
OS EPB1994089 EP 0415337 B1 941228
SO Wila-EPS-1994-H52-T1
DT Patent
LA Anmeldung in Englisch; Veroeffentlichung in Englisch
DS R GB

09/840,527

PIT EPB1 EUROPÄISCHE PATENTSCHRIFT
PI EP 415337 B1 19941228
OD 19910306
AI EP 1990-116459 19900828
PRAI US 1989-399656 19890828
REP US 3170858 A US 3592802 A
US 4525547 A US 4535136 A
ABEN A free-radical initiated process for preparing fluorinated polymers wherein at least one gaseous fluoroolefin is polymerized in a stirred polymerizer, the improvement comprising preparing a non-volatile polymeric seed in a reaction zone separate from the polymerizer by decomposing initiator in the presence of fluoromonomer to form oligomeric free radicals and condensing said radicals onto previously prepared polymer; and conveying said non-volatile seed to the polymerizer. <image>

L2 ANSWER 42 OF 49 USPATFULL on STN
AN 89:72098 USPATFULL
TI Polymerization of fluoroolefins
IN Slocum, Edgar W., Wilmington, DE, United States
Sobrero, Aquiles C., Parkersburg, WV, United States
Wheland, Robert C., Wilmington, DE, United States
PA E. I. Du Pont de Nemours and Company, Wilmington, DE, United States
(U.S. corporation)
PI US 4861845 19890829
AI US 1988-166484 19880310 (7)
DT Utility
FS Granted
EXNAM Primary Examiner: Schofer, Joseph L.; Assistant Examiner: Teskin, F. M.
CLMN Number of Claims: 8
ECL Exemplary Claim: 1
DRWN 1 Drawing Figure(s); 1 Drawing Page(s)
LN.CNT 259

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The polymerization of fluoromonomers can be accomplished without fouling by using gaseous monomers in the presence of at least one nonvolatile initiator and by recycling the initiator-free polymerizer gases through an external cooler.

| | | | |
|--|------------|---------|--|
| => file stnguide | | | |
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL | |
| | ENTRY | SESSION | |
| FULL ESTIMATED COST | 121.60 | 121.81 | |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL | |
| | ENTRY | SESSION | |
| CA SUBSCRIBER PRICE | -1.30 | -1.30 | |

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LAST RELOADED: Aug 22, 2003 (20030822/UP).

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| COST IN U.S. DOLLARS | SINCE FILE | TOTAL | |
| | ENTRY | SESSION | |
| FULL ESTIMATED COST | 0.36 | 122.17 | |

09/840,527

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
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| CA SUBSCRIBER PRICE | 0.00 | -1.30 |

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DICTIONARY FILE UPDATES: 25 AUG 2003 HIGHEST RN 573649-48-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END) :end

=> screen 1942 OR 1992 OR 2006 OR 2016 OR 2021 OR 2026 OR 1938 OR 1958 OR 1985 OR 1838

L3 SCREEN CREATED

=>
Uploading C:\Program Files\Stnexp\Queries\840527a.str

L4 STRUCTURE UPLOADED

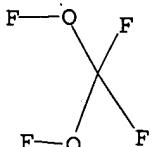
=> que L4 NOT L3

L5 QUE L4 NOT L3

=> d

L5 HAS NO ANSWERS

L3 SCR 1942 OR 1992 OR 2006 OR 2016 OR 2021 OR 2026 OR 1938 O R 1958 OR 1985 OR 1838
L4 STR



Structure attributes must be viewed using STN Express query preparation.
L5 QUE L4 NOT L3

09/840,527

=> s 15
SAMPLE SEARCH INITIATED 17:37:12 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 0 TO 0
PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L4 NOT L3

=> s 15 ful
FULL SEARCH INITIATED 17:37:18 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3 TO ITERATE

100.0% PROCESSED 3 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

L7 2 SEA SSS FUL L4 NOT L3

=> d scan

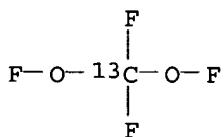
L7 2 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Hypofluorous acid, difluoromethylene ester (9CI)
MF C F4 O2
CI COM

F—O—CF₂—O—F

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L7 2 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Hypofluorous acid, difluoromethylene-13C ester (9CI)
MF C F4 O2



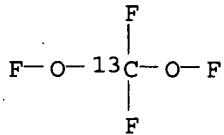
ALL ANSWERS HAVE BEEN SCANNED

=> d 1-2

L7 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2003 ACS on STN
RN 302587-02-6 REGISTRY

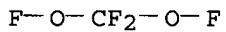
09/840,527

CN Hypofluorous acid, difluoromethylene-13C ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C F4 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



1 REFERENCES IN FILE CA (1937 TO DATE)
1 REFERENCES IN FILE CAPLUS (1937 TO DATE)

L7 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2003 ACS on STN
RN 16282-67-0 REGISTRY
CN Hypofluorous acid, difluoromethylene ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Methanediol, difluoro-, dihypofluorite (8CI)
OTHER NAMES:
CN Bis(fluoroxy)difluoromethane
CN Bis(fluoroxy)perfluoromethane
CN Difluoromethylene bis(hypofluorite)
CN Difluoromethylene hypofluorite
FS 3D CONCORD
MF C F4 O2
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, IFICDB, IFIPAT,
IFIUDB, SPECINFO, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

69 REFERENCES IN FILE CA (1937 TO DATE)
69 REFERENCES IN FILE CAPLUS (1937 TO DATE)

=> file chemistry patent
FILE 'ENCOMPLIT' ACCESS NOT AUTHORIZED
FILE 'ENCOMPPAT' ACCESS NOT AUTHORIZED
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ENTRY SESSION
FULL ESTIMATED COST 152.31 274.48
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL
ENTRY SESSION
CA SUBSCRIBER PRICE 0.00 -1.30

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=> S 302587-02-6 or 16282-67-0

47 FILES SEARCHED...

L8 83 302587-02-6 OR 16282-67-0

=> S 18 and (tetrafluoroethylene or dichlorodifluoroethylene)

44 FILES SEARCHED...

L9 7 L8 AND (TETRAFLUOROETHYLENE OR DICHLORODIFLUOROETHYLENE)

=> dup rem 19

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ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L9

L10 6 DUP REM L9 (1. DUPLICATE REMOVED)

=> d 1-6 bib ab

L10 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2003:102710 CAPLUS

DN 138:122394

TI Fluorination process and catalysts for the preparation of perfluoroalkyl hypofluorites from the corresponding perfluoroacyl fluorides

IN Navarrini, Walter; Calini, Pierangelo

PA Ausimont S.p.A., Italy

SO Ital. Appl., 21 pp.

CODEN: ITXXCZ

DT Patent

LA Italian

FAN.CNT 1

PATENT NO.

KIND DATE

APPLICATION NO. DATE

09/840,527

PI IT 2000MI1844 A1 20020208 IT 2000-MI1844 20000808
PRAI IT 2000-MI1844 20000808
OS CASREACT 138:122394
AB Perfluoroalkyl hypofluorites (e.g., pentafluoroethyl hypofluorite) are prep'd. in high yield and selectivity by the reaction of the corresponding perfluoroacyl fluorides (e.g., trifluoroacetyl fluoride) with fluorine in the presence of a catalyst system comprising CsF and/or KF on a fluorinated porous material, or CsF on a porous material contg. KF.

L10 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:780450 CAPLUS

DN 135:332426

TI Fluoroelastomers having low glass temperature

IN Navarrini, Walter

PA Ausimont S.P.A., Italy

SO Eur. Pat. Appl., 22 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|-----------------|----------|
| PI | EP 1148072 | A2 | 20011024 | EP 2001-108598 | 20010405 |
| | EP 1148072 | A3 | 20020807 | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO | | | | |
| | JP 2001354719 | A2 | 20011225 | JP 2001-120974 | 20010419 |
| | US 2001047067 | A1 | 20011129 | US 2001-840582 | 20010423 |
| PRAI | IT 2000-MI901 | A | 20000421 | | |

AB Fluoroelastomers with lower glass temp. comprise, in the polymer chain, units deriving from fluorovinyl ethers having the formula: CFX=CXOCF₂OR wherein R is a C₂-C₆ linear, branched or C₅-C₆ cyclic (per) fluoroalkyl group, or a C₂-C₆ linear, branched (per)fluoroalkoxy group contg. from one to three oxygen atoms; when R is fluoroalkyl or fluoroalkoxy group as above defined, it can contain from 1 to 2 atoms, equal or different, selected from the following: H, Cl, Br, I; X = F, H.

L10 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:780437 CAPLUS

DN 135:332425

TI Fluoro vinyl ethers and high-molecular-weight polymers made from them

IN Navarrini, Walter

PA Ausimont S.p.A., Italy

SO Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|-----------------|----------|
| PI | EP 1148041 | A2 | 20011024 | EP 2001-108596 | 20010405 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO | | | | |
| | JP 2001354720 | A2 | 20011225 | JP 2001-120969 | 20010419 |
| | US 2001051753 | A1 | 20011213 | US 2001-840527 | 20010423 |
| PRAI | IT 2000-MI902 | A | 20000421 | | |

OS MARPAT 135:332425

AB The fluoro vinyl ethers are of CFX=CXOCF₂OR type compds., wherein R is a C₂-6 linear, branched or C₅-6 cyclic (per)fluoroalkyl group, or a C₂-6 linear, branched (per)fluoro oxyalkyl group contg. from one to three oxygen atoms; when R is fluoroalkyl or fluoroxyalkyl group as above defined, it can contain from 1 to 2 atoms, equal or different, selected

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from the following: H, Cl, Br, I; X = F, H; and homopolymers or polymers are prep'd. from the ethers with at least another polymerizable monomer. Process for synthesis of the ether is also presented.

L10 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 1
AN 1995:414070 CAPLUS
DN 122:290742
TI A new approach to the synthesis of 2,2-difluoro-1,3-dioxolanes
AU Navarrini, W.; Bragante, L.; Fontana, S.; Tortelli, V.; Zedda, A.
CS Ausimont, Research and Development Center, Viale Lombardia, 20, 20021
Bollate, Milan, Italy
SO Journal of Fluorine Chemistry (1995), 71(1), 111-17
CODEN: JFLCAR; ISSN: 0022-1139
PB Elsevier
DT Journal
LA English
OS CASREACT 122:290742
AB A direct and versatile way to prep. halogenated 2,2-difluoro-1,3-dioxolanes through the addn. of bis(fluoroxy)difluoromethane to halogenated alkenes, i.e., CF₂:CFCF₃, CF₂CFOCF₂CF₃, CF₂:CHCF₃, CF₃CF:CFCF₃, CFCl:CFCl, CFB_r:CFBr, CCl₂:CCl₂, CHCl:CCl₂, CHCl:CHCl, CH₂:CHCl, CF₂:CFCl, (CF₃)₂CFCF₃, CF₂:CFBr, CF₂:CF₂, was discovered. Cyclic alkenes, such as perfluorocyclobutene, failed to give a reaction with bis(fluoroxy)difluoromethane. For example, 2,2,4,4,5-pentafluoro-5-(trifluoromethyl)-1,3-dioxolane was prep'd. from bis(fluoroxy)difluoromethane and perfluoropropene.

L10 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1992:106275 CAPLUS
DN 116:106275
TI Preparation of halogenated 1,3-dioxolanes from
bis(fluoroxy)difluoromethane and haloolefins
IN Navarrini, Walter; Fontana, Simonetta; Montanari, Vittorio
PA Ausimont S.p.A., Italy
SO Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---------------------------|------|----------|-----------------|----------|
| PI | EP 460948 | A2 | 19911211 | EP 1991-305109 | 19910606 |
| | EP 460948 | A3 | 19920325 | | |
| | EP 460948 | B1 | 19960821 | | |
| | R: BE, DE, ES, FR, GB, NL | | | | |
| | AU 9178250 | A1 | 19911212 | AU 1991-78250 | 19910606 |
| | AU 634392 | B2 | 19930218 | | |
| | ES 2093680 | T3 | 19970101 | ES 1991-305109 | 19910606 |
| | CA 2044106 | AA | 19911208 | CA 1991-2044106 | 19910607 |
| | CA 2044106 | C | 20011218 | | |
| | US 5225576 | A | 19930706 | US 1991-711775 | 19910607 |
| | JP 06087848 | A2 | 19940329 | JP 1991-163835 | 19910607 |
| | JP 3078357 | B2 | 20000821 | | |
| | RU 2039055 | C1 | 19950709 | RU 1991-4895581 | 19910607 |
| | US 5235074 | A | 19930810 | US 1992-847138 | 19920306 |
| PRAI | IT 1990-20578 | À | 19900607 | | |
| | US 1991-711775 | A3 | 19910607 | | |

OS MARPAT 116:106275
AB Title compds. (I; R₁-R₄ = F, Cl, Br, iodo, CF₂OSO₂F, SO₂F, COF, H, perhaloalkyl, oxyperhaloalkyl; R₅, R₆ = F, CF₃), were prep'd. by reaction of R₅R₆C(OF)₂ with R₁R₂C:CR₃R₄ at -140 to 60.degree.. Thus, F₂C:CFSO₂F, ClF₃C, and F₂C(OF)₂ were condensed into a pyrex flask at liq. N temp; the mixt. was kept 16 h in a mixt. of liq. N and CFCl₃ to give 60% title

09/840,527

compds. II.

L10 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1980:152092 CAPLUS
DN 92:152092
TI Dangerous chemical reactions. 64. Halogenated hydrocarbons. Part 2
AU Leleu, M. J.
CS Inst. Natl. Rech. Secur., Paris, Fr.
SO Cahiers de Notes Documentaires (1979), 97, 603-34
CODEN: CNDIBJ; ISSN: 0007-9952
DT Journal; General Review
LA French
AB Explosive or similarly vigorous reactions between halogenated hydrocarbons
and other chems. are described and referenced.

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FULL ESTIMATED COST

| | SINCE FILE ENTRY | TOTAL SESSION |
|---------------------|------------------|---------------|
| FULL ESTIMATED COST | 126.57 | 401.05 |

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FILE 'WPIDS' ENTERED AT 17:59:16 ON 26 AUG 2003
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<-----User Break----->

=> d his

(FILE 'HOME' ENTERED AT 17:22:01 ON 26 AUG 2003)

FILE 'AGRICOLA, ALUMINUM, ANABSTR, APOLLIT, AQUIRE, BABS, BIOCOMMERCE,
BIOTECHNO, CABA, CAOLD, CAPLUS, CBNB, CEABA-VTB, CEN, CERAB, CIN,
COMPENDEX, CONFSCI, COPPERLIT, CORROSION, ENCOMPLIT2, FEDRIP, GENBANK,
INSPEC, INSPHYS, INVESTTEXT, IPA, JICST-EPLUS, ...' ENTERED AT 17:22:16 ON
26 AUG 2003

L1 69 S TETRAFLUOROETHYLENE AND HYPOFLUORITE
L2 49 DUP REM L1 (20 DUPLICATES REMOVED)

FILE 'STNGUIDE' ENTERED AT 17:33:31 ON 26 AUG 2003

FILE 'REGISTRY' ENTERED AT 17:36:53 ON 26 AUG 2003

L3 SCREEN 1942 OR 1992 OR 2006 OR 2016 OR 2021 OR 2026 OR 19
L4 STRUCTURE uploaded
L5 QUE L4 NOT L3
L6 0 S L5
L7 2 S L5 FUL

FILE 'AGRICOLA, ALUMINUM, ANABSTR, APOLLIT, AQUIRE, BABS, BIOCOMMERCE,
BIOTECHNO, CABA, CAOLD, CAPLUS, CBNB, CEABA-VTB, CEN, CERAB, CIN,
COMPENDEX, CONFSCI, COPPERLIT, CORROSION, ENCOMPLIT2, FEDRIP, GENBANK,
INSPEC, INSPHYS, INVESTTEXT, IPA, JICST-EPLUS, ...' ENTERED AT 17:38:44 ON
26 AUG 2003

L8 83 S 302587-02-6 OR 16282-67-0
L9 7 S L8 AND (TETRAFLUOROETHYLENE OR DICHLORODIFLUOROETHYLENE)
L10 6 DUP REM L9 (1 DUPLICATE REMOVED)

=> file reg

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| FULL ESTIMATED COST | 126.57 | 401.05 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -3.91 | -5.21 |

FILE 'REGISTRY' ENTERED AT 17:59:51 ON 26 AUG 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 25 AUG 2003 HIGHEST RN 573649-48-6
DICTIONARY FILE UPDATES: 25 AUG 2003 HIGHEST RN 573649-48-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties

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in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END) :end

=> screen 1942 OR 1992 OR 2006 OR 2016 OR 2021 OR 2026 OR 1938 OR 1960 OR
1838

L11 SCREEN CREATED

=>
Uploading C:\Program Files\Stnexp\Queries\840527b.str

L12 STRUCTURE UPLOADED

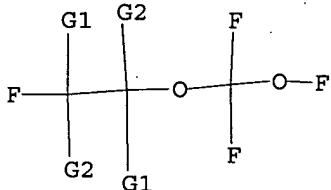
=> que L12 NOT L11

L13 QUE L12 NOT L11

=> d

L13 HAS NO ANSWERS

L11 SCR 1942 OR 1992 OR 2006 OR 2016 OR 2021 OR 2026 OR 1938 O
R 1960 OR 1838
L12 STR



G1 H, F

G2 H, Cl

Structure attributes must be viewed using STN Express query preparation.

L13 QUE L12 NOT L11

=> s l13

SAMPLE SEARCH INITIATED 18:00:16 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 0 TO 0
PROJECTED ANSWERS: 0 TO 0

L14 0 SEA SSS SAM L12 NOT L11

=> s l13 ful
FULL SEARCH INITIATED 18:00:22 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS

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SEARCH TIME: 00.00.01

L15 0 SEA SSS FUL L12 NOT L11

=> log y

| | | |
|--|------------------|---------------|
| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
| FULL ESTIMATED COST | 149.75 | 550.80 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -5.21 |

STN INTERNATIONAL LOGOFF AT 18:02:47 ON 26 AUG 2003